

EL PASO NATURAL GAS COMPANY
OPEN FLOW TEST DATA

DATE January 30, 1958

| | | | |
|---|-----------------------------|----------------------------------|-----------------------------|
| Operator El Paso Natural Gas | | Lease Russell No. 1-A | |
| Location 1550'S, 1850'E, Sec. 23-28-8 | | County San Juan | State New Mexico |
| Formation Pictured Cliffs | | Pool Undesignated | |
| Casing: Diameter 5-1/2 | Set At: Feet 2507 | Tubing: Diameter 1-1/4 | Set At: Feet 2468 |
| Pay Zone: From 2414 | To 2492 | Total Depth: 2520 | |
| Stimulation Method Sand Water Frac. | | Flow Through Casing X | Flow Through Tubing |

| | | | | | | | | | |
|---|------------------------------------|---|------|---------------------------|------|--|------|----|------------------------|
| Choke Size, Inches .750 | Choke Constant, C 12.365 | Shut-In Pressure, Tubing 1041 | PSIG | 12 | PSIA | Shut-In Pressure, Casing 1041 | PSIG | 12 | PSIA |
| Shut-In Pressure, Casing 1041 | PSIG | 12 | PSIA | Days Shut-In 11 | | Working Pressure: P _w 276 | PSIG | 12 | PSIA |
| Flowing Pressure: P 228 | PSIG | 12 | PSIA | | | F _{pv} (From Tables) 1.023 | | | Gravity .640 |
| Temperature: T 54 | F | | | | | | | | |

CHOKE VOLUME: $Q = C \times P_1 \times F \times F_g \times F_{pv}$

$Q = 12.365 \times 240 \times 1.0058 \times .9682 \times 1.023 = 2956$ MCF/D

OPEN FLOW: $Aof = Q \left(\frac{P_1^2}{P_2^2 - P_w^2} \right)^n$

$Aof = \left(\frac{1,108,809}{1,025,865} \right)^n \cdot 1.0808^{.85} \times 2956 = 1.0683 \times 2956$

$Aof = 3158$ MCF/D



TESTED BY Richard Proctor

WITNESSED BY _____

L. D. Galloway
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OIL CONSERVATION COMMISSION
AZTEC DISTRICT OFFICE

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